

# Rigging, Hoisting and Crane Operator Job Performance Measure (TQ-RIG-P) – 2/18/05

Candidate Name ([Print]):	Life/Guest/Contractor Number	Department/Division
Evaluator Name ([Print]):	Date JPM Completed	Bldg. Number where JPM Performed

## Prerequisite Information

Prerequisites and Practice/Observation Activity must be completed before job performance measure is administered.

Basic Rigging Initial Course or Refresher Completion Date (TQ-RIG C - TQ-RIG-CREF)	Overhead Crane Operator Course Completion Date (HP-Q010 or HP HP-Q010-W)
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Practice or Observation Activity Performed as indicated below : \_\_\_\_\_  
Evaluator's Initials

? New operator: The undersigned evaluator declares that the candidate has been provided with \_\_\_\_\_ hours of hands-on practice time with performance feedback and demonstrated his/her capability on the steps in this checklist, using the specified equipment type under the direct supervision of a qualified operator. Sufficient operator skill, competence, and confidence has been demonstrated on these steps at the required performance standard to warrant a practical evaluation.

? Incumbent operator: The undersigned evaluator or supervisor has observed the above-named person operating the specified equipment and performing the checklist steps for a period of \_\_\_\_\_ in a safe and competent manner, negating the need for further on-the-job training before the practical evaluation is administered.

## Equipment Qualifications Mark those successfully demonstrated.

Type Controls				Equipment Type	Ton Range	Qualification Codes
Pendant	Remote	Manual	Cab			
				Bridge Crane	06-20 Ton	TQ-MHQUAL-CRANE-B20
				Bridge Crane	21 Ton and Over	TQ-MHQUAL-CRANE-B21
				Bridge Crane	01-05 Ton	TQ-MHQUAL-CRANE-B5
				Cab Crane	06-20 Ton	TQ-MHQUAL-CRANE-C20
				Cab Crane	21 Ton and Over	TQ-MHQUAL-CRANE-C21
				Cab Crane	01-05 Ton	TQ-MHQUAL-CRANE-C5
				Jib Crane	Up to 1 Ton	TQ-MHQUAL-CRANE-J1
				Jib Crane	Over 1 Ton	TQ-MHQUAL-CRANE-J1+
				Monorail Crane	06-20 Ton	TQ-MHQUAL-CRANE-M20
				Monorail Crane	01-05 Ton	TQ-MHQUAL-CRANE-M5
				Portable Frame Crane	Up to 1 Ton	TQ-MHQUAL-CRANE-PF1
				Portable Frame Crane	Over 1 Ton	TQ-MHQUAL-CRANE-PF1+
				Structural Mount Crane	Up to 1 Ton	TQ-MHQUAL-CRANE-SM1
				Structural Mount Crane	Over 1 Ton	TQ-MHQUAL-CRANE-SM1+

## Task Qualifications Mark those successfully demonstrated.

X	Task Description	Codes	X	Task Description	Codes
	Plan and perform incidental/ordinary lifts	TQ-MHQUAL-RIG 1		Handle asymmetrical loads	TQ-MHQUAL-RIG 5
	Plan and perform pre-engineered lifts	TQ-MHQUAL-RIG 2		Move loads through, around or over obstacles	TQ-MHQUAL-RIG 6
	Specify, select, inspect and connect rigging	TQ-MHQUAL-RIG 3		Move loads in close proximities	TQ-MHQUAL-RIG 7
	Handle symmetrical loads	TQ-MHQUAL-RIG 4		Upend, invert or roll loads	TQ-MHQUAL-RIG 8

Submit form to Training in Building 703 for individuals who have successfully completed this Job Performance Measure.

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Evaluator Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Trainee Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Supervisor Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(Signatures indicate successful demonstration of all 10 steps and confidence in ability to perform and utilize equipment as defined.)

	Steps	Standard	Pass	Fail	Hold
01	Plan the lift <ul style="list-style-type: none"> <li>PPE requirements</li> <li>Determine load weight &amp; hoist capacity</li> <li>Locate the center of gravity</li> <li>Determine the number of lifting legs</li> <li>Determine rigging connection points</li> </ul>	<ul style="list-style-type: none"> <li>Safety shoes, hard hat, safety glasses and gloves</li> <li>Accurately</li> <li>Within 4 inches of precise location</li> <li>Zero deviation</li> <li>Accurately</li> </ul>			
02	Specify rigging & over-rig requirements <ul style="list-style-type: none"> <li>Determine sling, shackle and eye bolt types and capacities</li> </ul>	<ul style="list-style-type: none"> <li>Determine sling angles</li> <li>Determine sling angle factors and leg tensions correctly</li> <li>Determine chaffing needs correctly</li> <li>Specify sling capacities, lengths and apply the over rig principle</li> <li>Specify connectors to meet load and tension requirements and apply the over rig principle</li> </ul>			
03	Select rigging components	<ul style="list-style-type: none"> <li>Select rigging from approved and controlled rigging locker</li> <li>Apply the specification determinations from above</li> <li>Caution must be used to safe guard against selecting suspect or counterfeit items.</li> </ul>			
04	Inspect / reject rigging components	<ul style="list-style-type: none"> <li>Use DOE STD 1090-2004 inspection criteria to evaluate rigging components for serviceability or rejection</li> <li>Reject substandard or defective items and notify supervision</li> </ul>			
05	Inspect the overhead crane or hoisting device	<ul style="list-style-type: none"> <li>Use DOE STD 1090-2004 and Plant Engineering criteria and check lists to inspect the overhead crane or hoisting device for serviceability</li> </ul>			
06	Ensure work area safety	<ul style="list-style-type: none"> <li>Ensure personnel clearance</li> <li>Ensure walking and working surface, and good house keeping</li> <li>Ensure work zone control</li> </ul>			
07	Connect rigging to load and hoist hook	<ul style="list-style-type: none"> <li>Sling angles as close to vertical as possible, not &gt; than 45 degrees</li> <li>Connectors attached correctly</li> </ul>			
08	Hoisting the load	<ul style="list-style-type: none"> <li>Vertical lift with zero side pull</li> <li>Load balanced (within level bubble)</li> <li>Rigging connectors and slings positioned properly and safely</li> <li>Slings not &gt; than a 45 degree angle</li> </ul>			
09	Move the load	<ul style="list-style-type: none"> <li>Steady load control with no severe jerking or bouncing</li> <li>Slow travel speed</li> <li>Zero shock loading</li> </ul>			
10	Secure the lifting operation	<ul style="list-style-type: none"> <li>Return equipment to storage areas</li> </ul>			